

## CURIOUS RAILWAYS.

TRACKS LAID ON TREE TOPS, OVER ICE AND UNDERGROUND.

**A Locomotive on Sled Runners—Grading Through a Forest With a Crescent Saw—On a Single Rail—A Successful Sailing Car.**

In a small book entitled "Wonders and Curiosities of the Railway," the author, Mr. W. S. Kennedy, touches on the anomalous and entertaining features of his subject in chapters bearing such suggestive titles as "The Lightning Harnessed," "The Locomotive in Slippers," "The Luxuries of Travel," and "A Handful of Curiosities."

It appears that some time ago a locomotive on sled runners was constructed in Scotland, and employed for drawing passengers and freight over the ice between St. Petersburg and Cronstadt. The two driving wheels in the rear were studded with sharp spines, whereas the front part of the engine rested on a sled which was swivelled and turned to the right or left by wheels working in connection with an endless screw and a segment rack. From this locomotive, which is said to have run eighteen miles an hour in any direction, the transition is natural to railroads whose ties and tracks have been laid on the frozen surface of rivers. Mr. Kennedy tells us that in 1870, when the mercury stood twenty degrees below zero, a train of the Northern Pacific railroad passed over the Missouri river on ice three feet thick. The pressure which the ice resisted may be estimated from the fact that the track was laid on twelve foot ties, and that the cars carried over a quantity of railroad iron as well as a number of visitors. About a year after a similar road was built across the river St. Lawrence at Hochelaga.

### LAYING TIES ON TREE STUMPS.

Even more novel is the idea of grading for a railroad through a forest with a crescent saw, and laying the ties on the stumps. This has actually been done in Scutaria county, in this state. Here the trees were sawed off and leveled, and the ties fastened on the stumps, two of which were huge redwoods, standing side by side, and sawed off seventy-five feet from the ground. So firm is this support that cars loaded with heavy logs can pass over with perfect security. Several wooden track railways are actually operated in the United States and Canada. One of these, in the province of Quebec, is thirty miles long and is used in the transportation of timber. The rails are of maple and trains are said to run over them with remarkable smoothness at the rate of twenty-five miles an hour.

Still more curious are what Mr. Kennedy would call the bicycle railways, where the car wheels run on a single rail. One called the "steam caravan" was begun in Syria, between Aleppo and Alexandretta, but apparently never finished. In the case of this experiment the rail was raised on a wall of masonry twenty-eight inches high and seven feet and one-half inches broad. On this one rail were to travel the wheels of the locomotive and the carriages attached, but it was intended to brace the engine and the last car in the train by obliquely placed leather-covered wheels, running along the sides of the wall, which wheels were further to serve as brakes. A single rail, or bicycle railroad, has also been built in the United States, and was in operation at Phoenixville, Pa., in 1876. Since that date a two-wheeled locomotive has been made in Gloosier, N. J., for an elevated railroad in Atlanta, Ga.

### BY ATMOSPHERIC PRESSURE.

There is nothing specially new in the project of atmospheric railways, or, in other words, of propelling carriages along a large tube by producing a vacuum in front and applying atmospheric pressure behind. This device has not proved of much practical value, though a tubular road of this kind was for a time in actual operation at the Crystal Palace, Sydenham. The tube in this instance was of brick, a quarter of a mile long, nine feet high and eight feet wide, and the car within it was used only for the convenience of passengers. The piston that propelled the car was rendered almost air tight by means of a fringe of bristles, extending nearly to the surrounding brick work of the tunnel and to its floor. A fan, worked by a steam engine, both exhausted and compressed the air. The motion of the car was pleasant, and the ventilation ample. In connection with this branch of the subject Mr. Kennedy tells us that a "flying locomotive" was made to justify its name at the aeronautical exhibition in England, in 1883. The engine weighed thirteen pounds, and was made to lift itself, with forty pounds in addition, to a height of six inches in continuous flight around the room. But a much more successful sailing car was invented for the Kansas Pacific railroad, and has been used, for years as a hand car on that road. The car is eleven feet high, and the triangular sail has two booms. On the plains a speed of forty miles an hour has been attained by this car with the wind right ahead, the sail close-hauled, and the road full of disadvantages curves.

It will probably be news to most persons that in 1870, at Paris, one Dr. La Combe exhibited the model of a submarine railway which he proposed to lay on the bottom of the channel between Dover and Calais. On a roadbed of concrete three galvanized iron rails were to be placed, two for the track and one in the center. To the central rail the car was to be attached by rollers, in order to prevent it being derailed by the waves. The boat car was to be air tight, and driven by a propeller strew worked by compressed air. Fresh air was to be supplied to the occupants of the car by a tube running up to the surface of the water, where it would be affixed to a buoy. Finally, a series of buoys on the surface would mark out the track of the car, which, in case of any accident, could be cut loose below, whereupon it would rise to the surface.—The Argonaut.

### A Happy African Prince.

Prince Karamoko, who has seen the Eden theatre, the Opera house, the circus, Paris from a tower of Notre Dame, the Vendome column and the Arch of Triumph, the Gobelins, and was presented to M. Grevy, has left Chalons to return home by Bordeaux. The Black Prince, as he is called here, was greatly delighted with the military spectacle at Chalons, but what pleased him most was the breast of armor of the cuirassiers. He showed his pleasure by clapping his hands and by verbal exclamations, the exact meaning of which was known only to his interpreter. The general commanding the cavalry division, on seeing how much the polished breast plates dazzled the prince, ordered a cuirass to be given to him. Prince Karamoko donned it on the spot, but in the midst of his joy his face suddenly lost its pleased look. "What's the matter with him?" asked the general, who saw tears start from his eyes. The interpreter inquired, and answered: "He says that his father will be sure to take it from him to wear it himself when the prince goes back to Africa." Hence his distress. A second cuirass was then given for Karamoko's sire, who is the greatest warrior on the west coast of Africa. It is more easy to imagine than to describe the joy of the "Black Prince" at this kindly attention.—Paris Letter.

## General Advertisements.

**WENNER & Co.,**  
Manufacturing and Importing  
**JEWELERS,**  
No. 92 Fort Street.

Always keep on hand a most elegant assortment of  
**FINE JEWELRY,**  
SOLID AND PLATED SILVER WARE  
Ever brought to this market.

Clocks, Watches, Bracelets, Neck-  
lets, Pins, Lockets, Gold Chains  
and Guards, Sleeve Buttons  
Studs, Etc., Etc.

And ornaments of all kinds.

Elegant Solid Silver Tea Sets.

And all kinds of silver ware suitable for presentation.

**KUKUI AND SHELL JEWELRY**

Made to order.

Repairing of watches and jewelry carefully at-  
tended to, and executed in the most workmanlike  
manner.

**ENGRAVING A SPECIALTY.**

Particular attention is paid to orders and job work  
from the other Islands.

**Hawaiian Hotel**  
CARRIAGE CO.

Carriages at all hours, day and  
night. Saddle horses, buggies, wagon-  
nettes and village carts with stylish and  
gentle horses to let.

Horses clipped with the Patent  
Lightning Clipping Machine.

**FOR SALE.**

A few good Horses, 2 Phaetons,  
Two Top Buggies, second-hand Har-  
ness and 2 Village Carts.

PRICES TO SUIT THE TIMES

Ring up Telephone Number 32, or Apply

**MILES & HAYLEY.**

**Election of Officers.**

AT THE ANNUAL MEETING OF  
the stockholders of the Hawaiian Agri-  
cultural Company, held January 20th, 1887,  
the following officers were elected for the en-  
suing year:—

President, Hon. C. R. Bishop.  
Vice President, Mr. Samuel C. Allen.  
Treasurer, Mr. P. C. Jones.  
Secretary, Mr. J. O. Carter.  
Auditor, Mr. T. May.  
DIRECTORS:—Hon. C. R. Bishop, Messrs.  
S. C. Allen and P. C. Jones.

J. O. CARTER,  
Secretary.

Honolulu, Jan. 20, 1887.

**THE ONLY PRACTICAL**

**English Watchmaker**

On the Islands is

**WM. TURNER,**  
No. 82 King Street.

If you want your watch well repaired, or  
your clock put in order, go and see him.

BELL TELEPHONE NO.—, P. O. BOX NO. 415.

**CHAS. T. GULICK,**  
NOTARY PUBLIC.

Agent to take acknowledgments to Labor  
Contracts, Marriage License Agent,  
General Business and Commis-  
sion Agent and

**REAL ESTATE BROKER.**

Campbell's Block, second floor, adjoining  
United States Consulate, Merchant street,  
Honolulu, H. I.

**For Waianae and Waialua.**

The steamer **WAIMANALO** will leave  
here every Monday and Thursday for above  
ports, returning here Wednesday and Satur-  
day.

C. BOLTE,

Agent.

**New Photograph Gallery.**

Above Pantheon Stable.

Fort Street.....HONOLULU, H.  
Portraits and views. First-class work. Satisfac-  
tory guaranteed.  
I. A. GONSALVES

## NOTICE.

**ALL PERSONS ARE HEREBY**  
warned not to trespass on the island of  
Mokumeume in Pearl River Lagoon or to  
fish in its waters, and all found doing so, will  
be prosecuted according to law.

**THE LIVERPOOL AND LONDON AND**  
Globe Insurance Company.  
**BISHOP & Co. AGENTS.**

ESTABLISHED 1826

Unlimited Liability to Stockholders.  
Assets.....\$2,250,000  
Reserve.....7,500,000  
INCOME FOR 1884:  
Premiums received after deduction of re-  
insurance.....\$

If you want to know all the news  
you must read the **HERALD.**

## General Advertisements.

**H. HACKFELD & Co.**

—Offer for Sale—

**IRON TANKS.**  
(Various Sizes.)

STEEL RAILS, FENCE WIRES,

ROOFING SLATES, CEMENT,

CROCKERY, ROCK SALT,

**BAGS AND BAGGING,**

**VIENNA FURNITURE.**

And a Large Variety of other Goods too Numerous to Mention.

**AFTER TAKING STOCK!**

**All Goods at Greatly Reduced**  
**Prices.**

**B. F. EHLERS & CO.,**

99 Fort Street, Honolulu.

**CHARLES HUSTACE**

109 and 111 King St., between Fort and Alakea.

Has received per late arrivals a full assortment of

**STAPLE AND FANCY GROCERIES.**

Consisting in part of:

Family Flour, Germes, Oat Meal, Corn Meal, Cracked Wheat, Breakfast Gem, Dupes Ham  
and Bacon, Codfish, Lard, Smoked Beef, New Cheese, Kaga Cal. Butter, Dates, Raisins,  
Mustard Sauce, Sea Foam Wafers, Salmon and Medium Bread, Apples, Humboldt Potatoes,  
Wheat, Corn, Bran. Also a full line of Cal. Cracker Co.'s Crackers and Cakes. All of  
which are offered at lowest rates. All orders receive careful attention and prompt delivery.

Both Telephones No. 119. P. O. Box No. 372.

**THE "CENTRAL" CIGAR STAND**

Campbell's Block, Merchant Street.

**F. HILDER, : : : Proprietor**

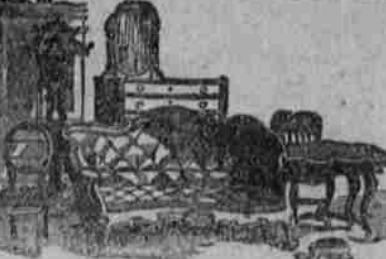
Bell Telephone 172. Mutual Telephone 375.

Gentlemen will find the "Central" always stocked with the  
choicest Havana and Domestic Cigars and Tobaccos. Fresh  
importations by every steamer.

The Finest Manila Cigars in the Market on Hand.

Island Orders Carefully Attended to. Give Me a Call.

**Pioneer Furniture Warerooms.**



**C. E. WILLIAMS,**

PROPRIETOR.

**Just Received,**

A variety of PARLOR SETS; Cedar, Maple  
and Walnut Bedroom Sets; Sideboards, Ward-  
robes, Bookcases; a variety of Baby Carriage  
Mirrors and Mirror Plates.

Upholstering in All Its Branches Satisfactorily Executed.  
Mutual Telephone and Night Alarm No. 76.

**STORE 68 HOTEL STREET.**

**HAY AND GRAIN.**

**LARGEST STOCKS,**  
**BEST QUALITY,**  
**LOWEST PRICES.**

**UNION FEED CO.**

Telephones No. 175.

Cor. Queen and Edinburgh Sts.

**THE DAILY HERALD.**

To-day, September 1st, 1886, is issued the first number of THE DAILY HERALD,  
a morning newspaper, to be printed for the proprietor under contract by the  
"Press Publishing Company," Merchant street, Honolulu.

**Price Six Dollars per Annum or Fifty Cents per**  
**Month.**

All who receive a copy of the initial or any succeeding number are  
respectfully

**INVITED TO SUBSCRIBE.**

Business men are solicited to test the advantages of THE DAILY HERALD  
as an

**ADVERTISING MEDIUM.**

A large edition will be printed each day, to be circulated in Honolulu and  
throughout the Islands, regardless of subscriptions, until a regular paying list of  
subscribers is obtained on the public becoming acquainted with the merits of  
the paper.

The DAILY HERALD will furnish a fresh and readable record of events in  
city and country. It will also give, from time to time as received, a summary  
of the latest news from the outside world, in concise and systematic form.

Try the "Daily Herald" for a month at least.

Honolulu, Sept. 1, 1886.

**DANIEL LOGAN,**  
Editor and Proprietor

## New Advertisements.

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Prepare for an Announcement of Supreme Importance,  
FROM THE  
EQUITABLE LIFE ASSURANCE SOCIETY OF N. Y.,  
IN A FEW DAYS.

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**GROCERS.**

**No. 42 Queen St.**

**SUGAR! SUGAR!**

In barrels, half barrels and boxes.

Bills. Flour, Golden Gate? Bills. Flour, El Dorado. Crown Flour

Sacks Wheat, Best Sacks Corn, Best, Whole, Sacks Corn, Best, Cracked, Sacks Bran, Coarse and Fine.

Sacks Beans, White, Sacks Beans, Red, Sacks Beans, Bayon, Sacks Beans, Lim

**SACKS POTATOES, BEST in GUNNIES**

Cases Noodles, Cases Extra Soda Crackers, Cases Maltine Bread, Cases Cracked Wheat, 10 lb. bags, Cases Corn Meal, white, 10 lb. bags, Cases Oat Meal, 10 lb. bags, Cases Corn Starch.

**Casks Dupee Hams,**

Casks L & A Hams, Cases R. B. Bacon.

Cases Fairbank's Lard, 1 lb. pail, Cases Fairbank's Lard, 1 lb. pail, Cases Fairbank's Lard, 10 lb. pail

Cases Whitney's Butter, in tins, Half skins Butter, Gilt Edge, Qr. skins Butter, Edge

**Cases New Cheese.**

Boxes and bills Salt Codfish, Bills Three Columbia River Salmon

Cases Laundry Starch, Boxes Brown Laundry Soap

Pure Java Coffee, Roasted and Ground, 1 lb. tins Sacks Green Coffee, Cases Japan Tea, 1 lb. papers, Cases Japan Tea, 1 lb. papers

Boxes Raisins, London Layers, 1/2 boxes Raisins, London Layers, Boxes Raisins, Muscate.

Drums Citron, Boxes Currants, Cases Chocolate, Cases Mixed Pickles, Cases Spices, assorted, all size

Sacks English Walnuts, Sacks Soft Shell Almonds.

Cases California Honey, 1 lb. tins, Cases King, Morse & Co's., fresh canned Fruits, Jellies and Vegetables, Bales Wrapping Paper, extra quality

A LARGE ASSORTMENT

**Best California Leather**

Sole, Inside, Harness, Skirting and Uppers, French and American Calfrkins, Sheep Skins, Goat Skins, Saddles and Saddle Trees.

These goods are new and fresh, and will be sold at

**LOWEST MARKET RATES.**

**M. W. McChesney & Sons**

**No. 42 Queen Street.**

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General Agent for the Hawaiian Islands.